

## REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only
International Application No.
International Filing Date
Name of receiving Office and "PCT International Application"
Amplicantia an accepta Clause

	Applicant's or agent's file reference (if desired) (12 characters maximum) 209791/KCS/nlb
Box No. I TITLE OF INVENTION	
A COMMUNICATION SYSTEM	* ·
Box No. II APPLICANT This person	on is also inventor
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residen	the address indicated in this
NOKIA CORPORATION	Facsimile No.
KEILALAHDENTIE 4 02150 ESPOO	Teleprinter No.
FINLAND	Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country) of residence:
	ed States except the United States the States indicated in States of America only the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURT	HER) INVENTOR(S)
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of t Box is the applicant's State (that is, country) of residence if no State of resident Aki NIEM!  Messeniuksenkatu 9 A 33  00250 Helsinki  Finland	applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  Applicant's registrationNo. with the Office
State (that is, country) of nationality:	State (that is, country) of residence:
This person is applicant for the purposes of:  all designated the United States all designated the United States	the States except that of America only the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated o	on a continuation sheet.
Box No. IV AGENT OR COMMON REPRESENTATIVE	
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities	as: representative
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of co	ity; full official designation. Telephone No. ountry.)
Kelda Camilla Karen STYLE PAGE WHITE & FARRER	Facsimile No.
54 Doughty Street London WC1N 2LS	Teleprinter No.
United Kingdom	Agent's registration No. with the Office
Address for correspondence: Mark this check-box where a space above is used instead to indicate a special address to v	no agent or common representative is/has been appointed and the which correspondence should be sent.

Form PCT/RO/101 (first sheet) (March 2001; reprint January 2003)

Sheet No 4	

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER	) INVENTOR(S)					
If none of the following sub-boxes is used, this sheet should not be included in the request.						
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  JOSE COSTA-REQUENA Karjalankatu 11 A 11  00520 Helsinki Finland  State (that is, country) of nationality:  State (that is, country) of nationality:  State (that is, country) FI  This person is applicant all designated all designated States except for the purposes of:  Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office					
Mohan SIVANANDAN   Taivaanvuohentie 10 A 13	applicant and inventor					
00200 Helsinki	inventor only (If this check-box is marked, do not fill in below.)					
Finland	Applicant's registration No. with the Office					
State (that is, country) of nationality:  FI  State (that is, country)  FI	) of residence:					
This person is applicant for the purposes of:  all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box					
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  Markus ISOMAKI Ajurinkatu 3 B 43 02600 Espoo Finland	This person is:  applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No, with the Office					
State (that is, country) of nationality:  State (that is, country)  Fl	of residence:					
mile and the second sec	the United States					
for the purposes of: States the United States of America	of America only the Supplemental Box					
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  Pekka PESSI  Keiteleentie 1 C 18  00550 Helsinki  Finland	This person is:  applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office					
State (that is, country) of nationality:    State (that is, country)   State (that is, country)	of residence:					
This person is applicant all designated all designated States except	the United States the States indicated in the Supplemental Box					
Further applicants and/or (further) inventors are indicated on another continuation sheet.						

Form PCT/RO/101 (continuation sheet) (March 2001; reprint January 2003)

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Sheet No.		3
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Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FU  If none of the following sub-boxes is used, this sheet should not be included	
Name and address: (Family name followed by given name; for a legal entity, full official dinaddress must include postal code and name of country. The country of the address indicated be so is the applicant's State (that is, country) of residence if no State of residence is indicated be Christophe BOURET  Pormestarinrinne 13 A 1  00160 Helsinki Finland	applicant only  applicant and inventor inventor only (If this check-box is marked, do not fill in below.)
State (that is, country) of nationality:  State (that is, country)	Applicant's registration No. with the Office
FR FI	s, country) of residence:
This person is applicant for the purposes of:  all designated all designated the United States of America	
Name and address: (Family name followed by given name; for a legal entity, full official de The address must include postal code and name of country. The country of the address indica Box is the applicant's State (that is, country) of residence if no State of residence is indicated be	nted in this
State (that is, country) of nationality:  State (that is,	s, country) of residence:
This person is applicant all designated all designated States except for the purposes of:  all designated the United States of America	the United States the States indicated in the Supplemental Box
Name and address: (Family name followed by given name; for a legal entity, full official de The address must include postal code and name of country. The country of the address indica Box is the applicant's State (that is, country) of residence if no State of residence is indicated bel	ted in this
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This person is applicant for the purposes of:  all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box
Name and address: (Family name followed by given name; for a legal entity, full official des The address must include postal code and name of country. The country of the address indicate Box is the applicant's State (that is, country) of residence if no State of residence is indicated below	ted in this
State (that is, country) of nationality:  State (that is,	country) of residence:
This person is applicant all designated all designated States except for the purposes of:  all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated on another cont	inuation sheet.

Form PCT/RO/101 (continuation sheet) (March 2001; reprint January 2003)

Во	x N	o. V	DESIGNATION OF STATE	s	λ	Mark the applicable check-boxes belov	v; at	leas	t one must be marked.
Th	The following designations are hereby made under Rule 4.9(a):								
R	egio	nal P	atent						
	_	A I SL Sta	RIPO Patent: GH Ghana, G Sierra Leone, SZ Swaziland, Tate which is a Contracting State	ZU of	nited the I	bia, KE Kenya, LS Lesotho, MW Republic of Tanzania, UG Uganda, Harare Protocol and of the PCT (if a	ZM ther	Zan kine	nbia, ZW Zimbabwe, and any other d of protection or treatment desired,
X	EA	Eu RU	rasian Patent: AM Armenia, A	ZA	zerb	aijan, BY Belarus, KG Kyrgyzstan, Turkmenistan, and any other State	KZ 1	ζaz	akhstan, MD Republic of Moldova
X	EP	Re:	public, DE Germany, DK Denn Ireland, IT Italy, LU Luxembo	nark urg,	, EE MC	n, BG Bulgaria, CH & LI Switzerlar Estonia, ES Spain, FI Finland, FR Monaco, NL Netherlands, PT Portu Contracting State of the European P	Fran gal, S	ce, SE	GB United Kingdom, GR Greece, Sweden, SI Slovenia, SK Slovakia,
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Na	tior	ıal P	atent (if other kind of protection	r or	treat	ment desired, specify on dotted line):			
X	ΑE	Unit	ed Arab Emirates	X	GM	Gambia	X	ΝZ	New Zealand
X	AG	Anti	gua and Barbuda	X	HR	Gambia Croatia	X	OM	(Oman
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						Israel			
						India			
X	ΑZ	Azer	baijan	X	IS	Iceland	X	RÜ	Russian Federation
X	BA	Bost	nia and Herzegovina	X	JР	Japan			
X	BB	Barb	ados	X	KE	Kenya	X	SC	Seychelies
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						Democratic People's Republic			
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						Republic of Korea			
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Pro	CSI	tions	ry Designation Statement. In	add	ition	to the designations made above, the	appl	ica	nt also makes under Rule 4 9(h) all
	other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being								

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Form PCT/RO/101 (second sheet) (January 2003)



## Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which Agents continues a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No...." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in
- if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Box No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurosian, European or OAPI patent) for the purposes of which the named person is inventor;
- if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
- if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required
- If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

JENKINS, Peter David (GB) DRIVER, Virginia Rozanne (GB) DANIELS, Jeffrey Nicholas (GB) SHCKLETON, Nicola (GB) SLINGSBY, Philip Roy (GB) HILL, Christopher Michael (GB) RUUSKANEN, Juha-Pekka (FI) WILLIAMS, David John (GB) EVANS, Marc Nigel (GB) EVENSON, Jane Harriet (GB)

PAGE WHITE & FARRER 54 Doughty Street London WC1N 2LS United Kingdom

Form PCT/RO/101 (supplemental sheet) (March 2001; reprint January 2003)

Sheet	Nο			.6	
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Box No. VI PRIORITY CLAIM							
The priority of the following	g earlier application(s) is here	by claimed:					
Filing date	is:						
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office			
item (1) 14/06/02	0213726.3	GB					
item (2)	9						
item (3)				1			
item (4)			,				
item (5)		·					
Further priority claims	are indicated in the Suppleme	ental Box.					
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:    all items   item (1)   item (2)   item (3)   item (4)   item (5)   other, see Supplemental Box  * Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii))  Box No. VII INTERNATIONAL SEARCHING AUTHORITY  Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):  ISA /  Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):  Date (day/month/year) Number Country (or regional Office)							
Box No. VIII DECLARAT	TONS		<u> </u>				
The following declarations a check-boxes below and indicated Box No. VIII (i)	are contained in Boxes Nos.	ber of each type of declara	oplicable tion):	Number of declarations			
Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent :							
Box No. VIII (iii)	Declaration as to the applic date, to claim the priority of		e international filing	:			
Box No. VIII (iv)  Declaration of inventorship (only for the purposes of the designation of the United States of America):							
Box No. VIII (v) Declaration as to non-prejudicial disclosures or exceptions to lack of novelty:							

Form PCT/RO/101 (third sheet) (July 2002; reprint January 2003)

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Sheet N	Λ ΄	

Box No. IX CHECK LIST; LANGUAGE OF FILING						
This international application confains:  (a) in paper form, the following number of sheets:  request (including  This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):  1.  fee calculation sheet:						
declaration sheets) : 7	2. Original separate power of attorney	•				
description (excluding sequence listings and/or	3. original general power of attorney	· .				
tables related thereto) : 13	4. Copy of general power of attorney: reference number					
claims : 4	if any:					
abstract : 1	5. statement explaining lack of signature	:				
drawings : 4	6. priority document(s) identified in Box No. VI as item(s):	•				
Sub-total number of sheets: 29 sequence listings:	7. Translation of international application into					
tables related thereto :	(language):					
(for both, actual number of	8. Separate indications concerning deposited microorgan or other biological material	nsm :				
sheets if filed in paper form, whether or not also filed in computer readable form;	9. sequence listings in computer readable form (indicate type and number of carriers)					
see (c) below)	(i) copy submitted for the purposes of international se Rule 13ter only (and not as part of the international	arch under				
Total number of sheets : 29	(ii) (only where check-box (b)(i) or (c)(i) is marked in left	column)				
(b) only in computer readable form (Section 801(a)(i))	additional copies including, where applicable, the copurposes of international search under Rule 13ter	opy for the :				
(i) sequence listings (ii) tables related thereto	(iii) together with relevant statement as to the identity of copies with the sequence listings mentioned in left.	f the copy or column :				
(c) also in computer readable form (Section 801(a)(ii))	10.  tables in computer readable form related to sequence li (indicate type and number of carriers)	stings				
<ul> <li>(i) ☐ sequence listings</li> <li>(ii) ☐ tables related thereto</li> </ul>	(i) copy submitted for the purposes of international sea Section 802(b-quater) only (and not as part of the in application)	irch under iternational				
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the (ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater):						
sequence listings: (iii) I together with relevant statement as to the identity of the copy or						
tables related thereto: copies with the tables mentioned in left column :						
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)						
Figure of the drawings which should accompany the abstract:  Language of filing of the international application:						
Box No. X SIGNATURE OF APPLICAN	LAGENT OR COMMON PEPPESENTATIVE					
Next to each signature, maicate the name of the person sig	ning and the capacity in which the person signs (if such capacity is not obvious f	rom reading the request).				
•						
KELDA CAMILLA KAREN STYLE, Pro	inggiornal December the					
REEDA CAMILLA RAREN STITLE, PRO	essional Representative					
	For receiving Office use only					
<ol> <li>Date of actual receipt of the purported international application:</li> </ol>		2. Drawings:				
2 (		received:				
S. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:						
1. Date of timely receipt of the required corrections under PCT Article 11(2):						
5. International Searching Authority (if two or more are competent): ISA /  6. Transmittal of search copy delayed until search fee is paid						
	For International Bureau use only					
Date of receipt of the record copy by the International Bureau:						